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EPA-WOO

May 12, 1977

Mr. Ken Mosbaugh
U.S. Environmental Protection Agency, WOO
1200 Sixth Avenue
Seattle, WA 98101

Department
of Ecology

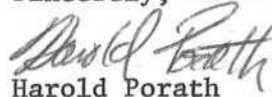
Dear Mr. Mosbaugh:

The following are our comments on the proposed wastewater treatment system for the Leavenworth National Fish Hatchery:

1. The lack of a narrative description of the fish hatchery and of the treatment process has made interpretation of the prints difficult. Without such a description it has not been evident of how the proposed construction interfaces with the existing facility, nor have the water flow patterns through the hatchery been clear.
2. Calculations presented with the prints are difficult to correlate with the appropriate rearing pond and/or raceway.
3. No mention is made as to the possible effects of the weather in the Leavenworth area on the lagoon or the treatment efficiency. Freezing conditions may interrupt normal flow through the lagoon, and at time of ice break up and lagoon overturn solids may become resuspended off the bottom.
4. Lagoon walls at 2:1 exceed 10 state standards. Is there information on the soils that would justify this steeper slope?
5. Outfall to the river (Wenatchee River) is unclear. Is there a difuser involved or if not then there must be a splash plate.
6. Must insure that the three existing banks of Foster-Lucas rearing ponds are not cleaned simultaneously, which would exceed the flow capacity of the pipes, as per our discussion on May 11.
7. No calculations are shown of cleaning of the proposed adult holding pond.
8. I have not checked the elevations of the pipes to insure that sufficient differences exist in their heights to guarantee gravity flow throughout the system.

I hope these comments have been helpful and constructive.

Sincerely,



Harold Porath
Environmental Quality Engineer

HP:ep